



Risk assessment SB/IB-Gel electrophoresis w GelRed

Produced 2012-02-02 By Riskbedömare 2 Livsvetenskaper
at Systembiologi och industriell bioteknik.

Modified 2013-08-23 By Systembiologi Gemensam

Final risk assessment of the method

0. Low risk

1. State the premises in which the activity is taking place

Fysik Forskarhuset

Floor Room

Kemi forskarhus 1

Floor Room

Kemi kurshus

Floor Room

Plan 6 6112A Big lab Systems Biology

Plan 6 6116A Small lab Systems biology

2. Description of activity

Electrophoretic run of DNA and RNA in agarose gels using electrophoresis equipment.

3. Products

Product name	Concentration	Form	Quantity	Danger	Comments
Agarose		Solid			
DNA Typing Grade 50x TAE Buffer (old)		Solution			
GelRed Nucleic Acid Stain, 10,000X in water		Solution			
MOPS, sodium salt R36/37/38 S26 , S36		Solution			

Risk phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety advice phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36 Wear suitable protective clothing

4. Risk category

d: low risk

5. Level of exposure

Low

6. Ventilation

Level of protection 1 - bench

7. Biological material

class 1

8. Comments on Biological material

DNA, RNA from microorganisms, mainly *S.cerevisiae*

9. Risk codes



10. Comments on risk codes

Gloves should be worn when handling the chemicals, as well as safety glasses.

11. Premises

12. Comments on premises

13. Protective signs

chemicals

14. Comments on protective signs

15. Personal protective equipment

protective glasses , protective gloves , protective clothing

16. Comments on Personal protective equipment

Avoid contact with skin and eyes

17. Describe the technical equipment

Power supply, and electrophoretic chambers.

18. Environment

emission to water

19. Comments on environment

Chemicals are not considered to have a negative effect on the environment.

20. Waste management

chemical waste

21. Comments on Waste management

Gels are collected in labeled cardboard boxes and handed over to Stena Recycling.

22. Emergency equipment

absorbing substance

23. Comments on Emergency equipment

In case of accidental large spills of solutions, use special absorbance material found in Big lab, Small lab and Balance room.

24. Hazardous actions

25. Comments on Hazardous actions

None

26. Special instructions to other personel

None

27. Accidental readiness

Absorbance material found on shelves in Big lab, small lab and Balance room in case of spill.

28. Final risk assessment of the method

0. Low risk

29. Comments on final risk assessment and additional risk reducing measurements

**Signature
Supervisor**

Date

Christer Larsson

Date of reassessment: